What is claimed is:

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- 1. A method of modifying a polymeric material which comprises (1) the step of activation-treatment and (2) the step of a hydrophilic polymer-treatment in this order.
- 2. A method of modifying a polymeric material which comprises (1) the step of activation-treatment, (2) the step of a hydrophilic polymer-treatment and (3) the step of monomer grafting in this order.
- 3. A method of modifying a polymeric material which comprises (1) the step of a solvent-treatment, (2) the step of activation-treatment and (3) the step of a hydrophilic polymer-treatment in this order.
- 4. A method of modifying a polymeric material which comprises (1) the step of a solvent-treatment, (2) the step of activation-treatment, (3) the step of a hydrophilic polymer-treatment and (4) the step of monomer grafting in this order.
- The method according to any one of Claims 1 to 4, wherein said polymeric materials are homopolymers or copolymers of one or more compounds selected from the group consisting of: olefins, vinyl compounds except olefins, vinylidene compounds and other compounds having carbon-carbon double bonds; polyesters, polyamides, polyimides, polyurethanes, polybenzoates, poly(benzoxazole)s, poly-(p-phenylene benzbisoxazole)s, poly-(p-phenylene poly(benzthiazole)s, benzbis-thiazole)s, materials, poly(alkyl-p-hydroxybenzoate)s, poly(benzimidazole)s, carbon fiber polyphenols, cellulose acetate, regenerated cellulose, vinylon, polychlel, casein, wool, silk and hemp (or ramie, jute).
- 6. The method according to any one of Claims 1 to 4, wherein said polymeric material is in the form of any one of fibers, woven fabrics, knitted webs, non-woven fabrics, plates, rods, films, sheets, porous films, sheets, members or products of molded materials in a given shape or composite materials with other materials.
- 7. The method according to any one of Claims 1 to 4, wherein said activation process is at least one of the following treatments; an ozone treatment, a plasma treatment, a UV irradiation treatment and a high voltage electric discharge treatment.
 - 8. The method according to any one of Claims 1 to 4, wherein said hydrophilic

polymer is at least one member selected from the group consisting of polyvinyl alcohol, carboxymethylcellulose, polyhydroxy ethylmethacrylate, poly- α -hydroxy vinylalcohol, polyacrylic acid, polyvinyl pyrrolidone, polyalkylene glycols, starche, silk fibroin, sericin, agar, gelatin, egg white and sodium arginate.

9. The method according to Claim 2 or Claim 4, wherein said monomer is a compound having carbon-carbon double bond.

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- 10. The method according to claim 9, wherein said monomers are at least one kind of monomer or a mixture of monomers selected from the following monomers; acrylic acid, methacrylic acid, vinyl acetate, 2-butene acid, ethylene sulfonic acid, hydroxyalkyl acrylate, hydroxyalkyl methacrylate, acryl amide, vinyl pyridine, vinyl pyrrolidone, vinyl carbazole, maleic anhydride and pyromellitic dianhydride.
- 11. The method according to any one of Claims 1 to 4, wherein said step of a hydrophilic polymer-treatment and said step of monomer grafting are carried out in the presence of catalysts or initiators.
- 12. The method according to Claim 2 or Claim 4, wherein said step of monomer grafting is carried out by any one of or both of the following two methods: (1) heating in the presence of catalysts or initiators and (2) UV irradiation in the presence or absence of catalysts, initiators or photo-sensitizers.
- 13. The method according to Claim 11 or Claim 12, wherein said initiators are at least one compound selected from the following compounds: peroxides, cerium ammonium nitrate (IV) and persulfates.
 - 14. An improved polymeric material obtained by the improvement method according to any one of Claims 1 to 13.
- 15. Battery separators containing improved polymeric materials obtained by the improvement method according to any one of Claims 1 to 13.
- 16. Wiping/cleansing materials containing improved polymeric materials obtained by the improvement method according to any one of Claims 1 to 13.
- 17. Filter mediums containing improved polymeric materials obtained by the improvement method according to any one of Claims 1 to 13.
- 30 18. Water absorption materials containing improved polymeric materials

obtained by the improvement method according to any one of Claims 1 to 13...

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- 19. Water retention materials containing improved polymeric materials obtained by the improvement method according to any one of Claims 1 to 13.
- 20. Materials for microorganism culture media containing improved polymeric materials obtained by the improvement method according to any one of Claims 1 to 13.
- 21. Composite materials containing improved polymeric materials obtained by the improvement method according to any one of Claims 1 to 13.
- 22. Members of writing materials containing improved polymeric materials obtained by the improvement method according to any one of Claims 1 to 13.
- 23. Polymeric materials improved in adhesion property obtained by the improvement method according to any one of Claims 1 to 13.
- 24. Medical/sanitary/cosmetic supplies containing improved polymeric materials obtained by the improvement method according to any one of Claims 1 to 13.
- 25. Synthetic papers made of improved polymeric materials obtained by the improvement method according to any one of Claims 1 to 13.
- 26. Orthodontic brackets containing improved polymeric materials obtained by the improvement method according to any one of Claims 1 to 13.
- 27. Textile products for clothing or inner battings of beds/bed clothing containing improved polymeric materials obtained by the improvement method according to any one of Claims 1 to 13.